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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/707,383	12/09/2003	Milos Krejcek		1382
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37152	7590	03/15/2006		
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MILOS KREJCEK  
6275 SADDLE TREE DRIVE  
LAS VEGAS, NV 89118

EXAMINER
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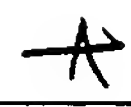
TA, THO DAC

ART UNIT	PAPER NUMBER
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2833

DATE MAILED: 03/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/707,383	KREJCIK, MILOS	
	<b>Examiner</b>	<b>Art Unit</b>	
	Tho D. Ta	2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 5-8 is/are rejected.
- 7) ☒ Claim(s) 4 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 December 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/9/03</u> . | 6) <input type="checkbox"/> Other: ____.  |

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## **DETAILED ACTION**

### ***Drawings***

1. The drawings are objected to because the figure numbers are not labeled.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### ***Specification***

2. The disclosure is objected to because of the following informalities: The Brief description of Drawings should list all the figure numbers.

Appropriate correction is required.

### ***Claim Objections***

3. Claims 1—8 are objected to because of the following informalities: claim 1, line 8, before “opening” insert --an--; claim 1, line 10, before “downwardly” insert --a--; claim 1, line 11, before “bottom flat” insert --a--; claim 1, line 12, change “a bottom” to --said bottom--; claim 1, lines 18, 22, change “said circuit” to--said substrate--; claim 1, line 19, change “bottom surface” to --top surface--; claim 1, line 19, change “a bottom of” to --said bottom of--. Appropriate correction is required.

4. Claim 4 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The rigid support plate has been recited in independent claim 1. Accordingly, the claim has not been further treated on the merits.

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1, 2, 6-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Renn et al. (5,452,183) in view of Chapin et al. (6, 022,225).

In regard to claims 1, 2, Renn et al. discloses a Conforming Lid Socket for connection to the leads 32 of a surface mount package 18, the package 18 having a

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body 34 and each the lead 32 is formed in "L" shape having a downwardly extending section 38 proximate a side of the body 34 and outwardly extending section 40 proximate a bottom of the body 34, the Conforming Lid Socket comprising: a rigid lid 16 having a thickness and an opening 58 that allow encase specific surface mount package 18, the opening 58 having downwardly extending wall 70 proximate a side of the body 34, the rigid lid 16 having bottom flat conforming surface (bottom surface of wall 70) proximate the bottom of the body 34, a plurality of the lead downwardly extending section 38 pressing against the wall 70, the conforming surface pressing against the lead outwardly extending section 40 having a bottom connection surface, a plurality of the bottom connection surface connecting to a substrate bearing contacting element 84 on a substrate 14, the substrate 14 having a thickness and a top surface proximate the bottom of the body 34.

However, Renn et al. does not disclose a rigid support plate having a thickness and a top surface proximate a bottom of the substrate 14, the top surface pressing against the bottom surface.

Chapin et al. discloses a rigid support plate 61 having a thickness and a top surface proximate a bottom of the substrate 11, the top surface of the rigid support plate 61 pressing against the bottom surface of the substrate 11 for provide additional rigidity for the assembly 10 (column 6, lines 33-50).

Therefor, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Renn et al. invention by adding a rigid support plate

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as disclosed by Chapin et al. in order to provide an additional protection to the socket assembly.

In regard to claims 6-8, the functional recitations “wherein the connection surface and the contacting element having negligible parasitic inductance compared to conventional sockets with conforming contact pins”; “wherein the connection surface and the contacting element having negligible parasitic capacitance compared to conventional sockets with conforming contact pins” and “wherein the connection surface and the contacting element having no additional resistance compared to conventional sockets with conductive polymer” have not been given significant patentable weight because they are narrative in form. In order to be given patentable weight, a functional recitation must be expressed as a “means” for performing the specified function, as set forth in 35 USC 112, 6 th Paragraph, and must be supported by recitation in the claim of sufficient structure to warrant the presence of the functional language. In re Fuller, 1929 C.D. 172; 388 O.G. 279.

7. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Renn et al. and Chapin et al. as applied to claim 1 above, and further in view of Payne (4,716,500).

Renn et al. ad modified by Chapin et al. has been discussed above.

Renn et al. does not disclose the substrate 14 as a flexible printed circuit board.

Payne disclose the use of substrate 2 as a flexible printed circuit board and the rigid support plate 18 to keep the flexible printed circuit board 2 straight.

Therefor, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify Renn et al. invention by replacing the rigid substrate with a flexible printed circuit board in order to provide another alternative electrical connectivity.

8. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Renn et al. and Chapin et al. as applied to claim 1 above, and further in view of Murphy et al. (5,438,481).

Renn et al. ad modified by Chapin et al. has been discussed above.

Renn et al. does not disclose that the substrate bearing contacting element connected to a pin, a plurality of the pin having virtually any footprint required for surface mount or through-hole applications.

Murphy et al. discloses that the substrate bearing contacting element 12 connected to a pin 26, a plurality of the pin 26 having virtually any footprint required for through-hole applications.

Therefor, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further modify Renn et al. invention by constructing the substrate bearing contacting element as disclosed by Murphy et al. in order to provide another alternative electrical connectivity.



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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho D. Ta whose telephone number is (571) 272-2014. The examiner can normally be reached on M-F (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



THO D. TA  
PRIMARY EXAMINER